COUNTING ROOM TECHNICIAN
JOB PERFORMANCE MEASURE

TASK CODE: CRT-E02

TASK: Perform Liquid Scintillation Counter Response Check

NAME: _____ **SSN**: _____

REFERENCES:

1. WP 12-RL1313, Packard LSC 2250 Operation/Efficiency Determination
2. WP 12-RL1320, Radioactive Source Control

TERMINAL OBJECTIVE:

Given a liquid scintillation counting system, perform the response check per WP 12RL1313.

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper sample analysis
Component damage

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

None

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CF 3.00 Series
2. CRT-A12, Manage Samples

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

1. Packard Liquid Scintillation Counting System
2. System Logbook
3. Radioactive Sources

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
2	State the precautions associated with handling radioactive sources.	
1	Discuss the procedural precautions, limitations and prerequisites.	
1	State the type of detector this instument utilizes.	
1	State the purpose of the instrument response check.	
1	Discuss the purpose of the Varisette Cassette	
1	State the three performance assessments that are part of the overall response check.	
1	Discuss why the LSC lid must remain closed during all counting activities.	
1	State where all cocktail solutions are to be stored when not actively being used.	

PERFORMANCE REQUIREMENTS:

Reference	Performance Requirement	Pass/Fail
2	Obtain and check out the required radioactive sources.#	
1	Verify all procedural precautions, limitations and prerequisites have been met.#	
1	Verify the system is currently calibrated.#	
1	Startup the LSC Counting System.#	
1	Perform the instrument response check.#	
1	Verify the instrument performance assessment results are within values displayed on the monitor.#	
1	Document the completion of the response check.#	
2	Return and checkin the radioactive sources.#	

# indicates a critical step

FINAL EVALUATION: PASS FAIL

COMMENTS:

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EVALUATOR SIGNATURE: _____ **DATE**:_____

TRAINEE SIGNATURE: _____ **DATE**:_____

MANAGER SIGNATURE: _____ **DATE**:_____